

23



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Vol. 23.

## DIARY

OF

Hymenoptera, other insects, plants etc.  
 over collected by A. W. Stelfox & Co.

Vol. 23.

From 7<sup>th</sup> October 1954 until 7<sup>th</sup> Sept. 1955.

1954.

1<sup>st</sup> Oct. 1954. Very fine day with long periods of  
 sun, but some light rain in evening, followed by heavy  
 rain at night. In afternoon some 1000 ft. from  
 Rathfriland in the Dublin area some 1000 ft. from  
 Tullamore a lot of small insects were caught in  
 a net. They were all small and mostly of the same  
 kind.

The following are some of the insects caught in  
 a net at Tullamore on 1<sup>st</sup> Oct. 1954. Some of the  
 insects were not identified.

8<sup>th</sup> Oct. 1954. A very fine day with long periods of  
 sun, but some light rain in evening, followed by heavy  
 rain at night. In afternoon some 1000 ft. from  
 Rathfriland in the Dublin area some 1000 ft. from  
 Tullamore a lot of small insects were caught in  
 a net. They were all small and mostly of the same  
 kind.

*Phygadeuon*? sp. ♀, ant. 20.

*Microcryptus*? sp. ♀, ant. 22.

*Microcryptus*? sp. ♀, ant. 22.

*Microcryptus*? sp. ♀, ant. 21.

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*Microcryptus*? sp. ♀, ant. 21.

*Microcryptus*? sp. ♀, ant. 21.

ant. 22

ant. 21

ant. 21

ant. 21

ant. 21

ant. 21

ant. 21

ant. 21

ant. 21



at and <sup>21</sup> yellow nap.  
" " large and sharp-  
" " I must spin. }



11.10.1962 cont. in Greenhouses, etc. with  
*Desm. gibbosa* 20-25 mtd. 2 females, ant. 25.  
*Desm. sp.* 20-25 mtd. ant. 27 & 28

*C. aphanta* ♀, ant. 25.  
*Proctos.* cf. not mtd.  
*Cephalos.* spp. 5: none mtd.  
*Proctotrupes glabrator* det. 20.2.63 as *Proctotrupes glabrator* by J. H. M. Westoby Jan. 1963.  
*P. glabrator* 20.2.63, about 1000 mtd.

*Chalcids* 4 } none mtd.  
*Cynipids* 2 }  
*Culicids* 2 } *Megastomus* 1 - not mtd.

12th Oct 1962. Another very warm, soft day, with  
 but no wind of sun & at other times quite hot & sunny.  
 Spent forenoon getting the Reserve from the  
 taken in 1921 & sent to the University of Cambridge  
 in 1921 ready to send to the University who had some of  
 some of the deposits in the Reserve since - sent  
 August (1962). In afternoon walked with Daisy, to  
 Oswald Bridge & down the St. Leger to Bunting  
 via the river path & was part of the walk  
 between the mill race & the river Ladder.

10.10.1962 cont. in the Greenhouses, etc. with  
 but no wind of sun & at other times quite hot & sunny.  
 Spent forenoon getting the Reserve from the  
 taken in 1921 & sent to the University of Cambridge  
 in 1921 ready to send to the University who had some of  
 some of the deposits in the Reserve since - sent  
 August (1962). In afternoon walked with Daisy, to  
 Oswald Bridge & down the St. Leger to Bunting  
 via the river path & was part of the walk  
 between the mill race & the river Ladder.

Bunting, for D.V. [36 mtd. & these labelled on 23/10/1962 NWS.]

! 4 mounted as follows: —  
*Microgaster apertus* ♂, ant. 22. H. ♂, mtd. abdomen, ant. 21.  
*Pezomachus* ♂, ant. 23. Large ♂, ant. 23.  
*P.* small ♀, ant. 20.  
*Euclyptus brunneus* 2 ♂ of var. without a violet, ant. 27.  
*Stenomacrus ventralis* ♀, not mtd.  
*St. cf. delictus* ♀, ant. 25.  
*St. cf. macula* ♀, ant. 25, var. with minute violet!  
*Cephalos.* 2 ♂♂.  
*P.* 5 (2 ♂♂), 1 ♀ with 1 ♂ from large 2  
 mtd. ant. 26.



















21.10.54 cont. *Glennview, Co. DU.*  
 Taken at 2. [31 mounted & then labelled on 4.8.62 1962! AWS] - *black orbits, long 2nd ant. seg., high ridge on propodeum. See p. 13 notes for smaller ♀ of same sp.*  
*Hyphodromus* sp. ♀, ant. 20. ♂, ant. 19.  
*Phygadeuon*? sp. ♂, ant. 23.  
*Abtractodes* sp. *Andrioceros* (?), ant. 20.  
*Mesochorus*? 2 large ones, 1 male, ant. 50 & 52, 20 & 25.  
*Lagerström* sp. *dehitor* (= *insolens*), ♂, ant. 52.  
*L.* of *senilis* group, ♂, ant. 50.  
*Orthocentrus* *polihorus* ♀, ant. 29.  
*Pentapleura* *curvicauda* ♀, ant. 20. [See *Eutrigona* below AWS 1962.]  
*Stenomacrus* *contortus* 2 ♀♀, ant. 20 & 21.  
*St. contortus* ♂, ant. 21. *St. cf. affinis* complex? 3 ♀♀, ant. all 21.  
*St. cf. nuda*? 4 ♂♂, ant. all 26, but on the straight radius, 2 very curved & 1 somewhat curved at apex, but does this signify? AWS.  
*Eutrigona* cf. *divulgata*, ♀, ant. 19.  
*Mesochorus* sp. ♀, ant. 40.  
*Pentapleura* sp. ♂ & ♀ - *Pentapleura* ♂, ant. 21, *Apicilopterus* ♀, ant. 20. [rather long line!]  
*Opisus* spp. 2 small ♀♀, 1 for the group of *O. communis* ♀, ant. 24.  
 & *O. laevis* ♀, ant. 23.  
*Aspilota* *cymipoda* ♀, ant. 19, 19-segmented.  
*Dacnusa* *hirsuta* group, 2, including 1 ♂, ant. 21.  
*Dacnusa* *resplenda*, *longicauda*, both ant. 21.  
 [This is *D. (R.) longicauda* ♀, ant. 22, AWS. 1962. This ♀ has 20-segment, sternal & hind legs as *neoplausa*, & is a typical ♀ *D. (R.)* some Nixon! AWS. 1962.]  
*Mesochorus* *caesus* 1 male ♂, ant. 21.

21.10.54 (2) cont. *Glennview, Co. DU.*  
 Taken at 3. [37 mtd. & then labelled 25.9.1962! AWS]  
*Cratichneumon* *varipes* ♀, ant. 23.  
*Hyphodromus* sp. ♀, ant. 20. [? = *Eutrigona* cf. *divulgata* ♀, ant. 20. It is small and slender but may be same species; ant. 25.]  
*Pezomachus* sp. 2 ♀♀, ant. both 19.  
*Schizopyga* *atra* ♀, ant. 24.  
*Dacnusa* *caesus* group, 2, 1 ♂, ant. 21, 1 ♀, ant. 20.  
*Pentapleura* *curvicauda* ♀, ant. 20.  
*Opisus* spp. 2 small ♀♀, 1 for the group of *O. communis* ♀, ant. 24.  
 & 1 ♂ of the group - small, ant. 21, with 19-segmented antenna.  
 The small smalls include *longicauda* ♂, ant. 22. [? = *Eutrigona* cf. *divulgata* ♂, ant. 22.]















31 15.1944 cont. - 3 Burley Park Co. VII cont.  
 Swept along shelter belt of the Fergus River, Bur-  
 ley, where we saw a wall of the forest behind, but  
 only a few trees in the line, the trees & those in the  
 wood in the same line as below the road for a  
 half a mile. The following insects taken: -

29.10.44 + 30.10.44  
 11.11.44 7.4.1945

*Stethorus gazdai* - 10.

*Lamachus aphidivorus* ♀ in shelter belt along Fergus River.

*Stenomacrus ventralis* 2 ♀♀.

♂ of *ochropus* ♀, ant. 24. temples short & occiput shallowly excavated & project of  
*Phaenocarpa* ♂ & ♀ - 2 seen within of all palps, ant. 219, ♀ 215.

*Graphomya lanceolata* ♂ ant. 21, mesophrum smooth.

*Dacnusa areolaris* group, including *laevis* & *hypocretula*  
 about 10 - 15 m.

*Mesochorus* ♂, ant. 13. *Ophidius* - runs to *matricariae* but very like  
 only var. of *matricariae*, ♀, ant. 14.

*Proctos* 2 - 3 bristles of fuliginous hairs, ♀.

*Exochus* *nigrescens* Kieffer ♀, small sample.

*Chalcid* 7.

*Euphorbia* 1.

31 15.1944 cont. - 3 Burley Park Co. VII cont.  
 Swept along shelter belt of the Fergus River, Bur-  
 ley, where we saw a wall of the forest behind, but  
 only a few trees in the line, the trees & those in the  
 wood in the same line as below the road for a  
 half a mile. The following insects taken: -  
*Stethorus gazdai* - 10.  
*Lamachus aphidivorus* ♀ in shelter belt along Fergus River.  
*Stenomacrus ventralis* 2 ♀♀.  
 ♂ of *ochropus* ♀, ant. 24. temples short & occiput shallowly excavated & project of  
*Phaenocarpa* ♂ & ♀ - 2 seen within of all palps, ant. 219, ♀ 215.  
*Graphomya lanceolata* ♂ ant. 21, mesophrum smooth.  
*Dacnusa areolaris* group, including *laevis* & *hypocretula*  
 about 10 - 15 m.  
*Mesochorus* ♂, ant. 13. *Ophidius* - runs to *matricariae* but very like  
 only var. of *matricariae*, ♀, ant. 14.  
*Proctos* 2 - 3 bristles of fuliginous hairs, ♀.  
*Exochus* *nigrescens* Kieffer ♀, small sample.  
*Chalcid* 7.  
*Euphorbia* 1.

March 15. 1944. 1 Staphy. & 5 Chalcids  
 taken at Burley Park Co. VII, 2.9.1944.  
 P.W.C.

31 15.1944 cont. - 3 Burley Park Co. VII cont.  
 Swept along shelter belt of the Fergus River, Bur-  
 ley, where we saw a wall of the forest behind, but  
 only a few trees in the line, the trees & those in the  
 wood in the same line as below the road for a  
 half a mile. The following insects taken: -  
*Stethorus gazdai* - 10.  
*Lamachus aphidivorus* ♀ in shelter belt along Fergus River.  
*Stenomacrus ventralis* 2 ♀♀.  
 ♂ of *ochropus* ♀, ant. 24. temples short & occiput shallowly excavated & project of  
*Phaenocarpa* ♂ & ♀ - 2 seen within of all palps, ant. 219, ♀ 215.  
*Graphomya lanceolata* ♂ ant. 21, mesophrum smooth.  
*Dacnusa areolaris* group, including *laevis* & *hypocretula*  
 about 10 - 15 m.  
*Mesochorus* ♂, ant. 13. *Ophidius* - runs to *matricariae* but very like  
 only var. of *matricariae*, ♀, ant. 14.  
*Proctos* 2 - 3 bristles of fuliginous hairs, ♀.  
*Exochus* *nigrescens* Kieffer ♀, small sample.  
*Chalcid* 7.  
*Euphorbia* 1.







14 November 1954. A dull cold day, rain in the evening.  
 15 Nov. (Sat). A cold sunny day with a strong  
 wind from the west. The sun was out for most of the day.  
 16 Nov. A cold sunny day with a strong wind from the west.  
 17 Nov. A cold sunny day with a strong wind from the west.

18 Nov. (Sat). A cold sunny day with a strong wind from the west.  
 19 Nov. A cold sunny day with a strong wind from the west.  
 20 Nov. A cold sunny day with a strong wind from the west.

21 Nov. A cold sunny day with a strong wind from the west.  
 22 Nov. A cold sunny day with a strong wind from the west.  
 23 Nov. A cold sunny day with a strong wind from the west.  
 24 Nov. A cold sunny day with a strong wind from the west.  
 25 Nov. A cold sunny day with a strong wind from the west.  
 26 Nov. A cold sunny day with a strong wind from the west.  
 27 Nov. A cold sunny day with a strong wind from the west.  
 28 Nov. A cold sunny day with a strong wind from the west.  
 29 Nov. A cold sunny day with a strong wind from the west.  
 30 Nov. A cold sunny day with a strong wind from the west.

Have between Greenhills & Tynon Castle, DU, was 500.  
 Pterodroma (sp.) in garden (above) = *Oicophila pallipes*, ant. 25.  
 Long-legged fly, in garden = *Angitia*? sp. ant. 27.  
 (Probably in garden above)

No signs of female flowers on the early May's tree. (see  
 No flowers on the male cottons so far as I know: none  
 ago: the tree is in full leaf, except below where  
 damaged by the two goats which live now in the house

8th Nov 1954. A very wet, cold day. Snow on the hills.  
 9th Nov. Blue sky & sun from morning till 4.30. Wind out  
 at 2.15 for our walk, then very cold with very strong wind.

A few more notes on the list of 1954. I have been  
 entering 422. *Belgicula* (sp.) to help me with the following  
 monograph on the group (the original specimens taken from 1927  
 till 1953, both in the UK, in Ireland (1200), Scotland (1200) &  
 Dorset (31). *Belgicula* taken specimens to be taken in the  
 UK in 1938. [25 mounted & these not labelled until 21/10/1962!]

In afternoon took bus to Rathfriland Bridge & walked  
 down to Dodder to Lantry & then home. Swept here &  
 there in the Dodder Park above. Overall Bridge & home & there  
 for the bridge to Lantry Dye Works, but all labelled Lantry  
 for brevity. After the rain & frost of 8th it was  
 surprising that any *Belgicula* could be abroad to be swept.  
 but here is a list of what I took: — Co. DU.

*R. Dodder* from Dodder Park to Lantry Dye Works.  
*Microgaster nigromaculatus*, small fly in Dodder Park; ant. 21.  
*Promethes* sp. ant. 19. (very large fly, taken in one of the trees  
 found in the garden) = *Atractodes tenebrosus* or with frons  
*Promethes pulchellus* (sp.) ant. 21.  
*Stenomacrus* 3 = *St. brevis*, ant. 21.  
*St. of curvicaudatus* 2 ♂♂, smaller, ant. 22, the other large, ant. 27.



















17<sup>th</sup> to 25<sup>th</sup> December 1954. Fine cold to cold but fine & most parts mild & wet. No collecting possible until the afternoon of 21<sup>st</sup> Dec when we walked along the River Dodder at Busby Park & swept for 1 hour in several places, as on 14<sup>th</sup>, but the day was deteriorating & rain & storm coming, so I was disappointed that I obtained any Hymenoptera etc. Took the following:-

- 25<sup>th</sup> Dec (Sun Day) Busby Park, Townmore Co. DU. 3.0 - 3.30 PM.  
*Stenomacrus palustris*? <sup>propagulum, without upper mandibles</sup> or black flies, thick with off Holly! but 24.  
*St. contracta* 14, ant 23.  
*Baccharis leucophaea* 18 ant 23.  
 Chalcid 1.  
 Diptera frequent 3 taken.

Homoptera: small, very green, lotter.

26<sup>th</sup> - 29<sup>th</sup> Dec. Weather improving, mild, light SW-W, windy, with a drizzle at times, but no rain. The afternoon of 29<sup>th</sup> 29<sup>th</sup> Dec. A bright, sunny day, clear sky, a few clouds but not many. In afternoon, when home I walked to Dartree & up to Dodder & home. Very still in Plover house & there but the wasps were & 25 up of 1st ant - the 1st ant at Dartree where many were coming & going at end of November. Two flower heads of *Alchemilla* seen by the Dodder out into the park & fresh growth on many herbs & grass. Cut grass - front & back garden on 28<sup>th</sup>.

30<sup>th</sup> Dec 1954. But a cold with rain & drizzle for 30<sup>th</sup> all day.  
 31<sup>st</sup> Dec. A nice day, cold but sunny & with much sun & light in morning but very strong & dry at midday & afternoon & strong gusty wind in the afternoon & evening. Took for a walk in the park, but leaving at 3 PM. Home to Rockbrook & walked via Mount Vernon & Woodtown & College College, back to Fairhouse where swept 2 or 3 hours. Just as we approached Fairhouse for Lyons Barleygate, in strong cold wind & poor light, saw several *Vespa vulgaris* very active at my flower on the wall on W. side of road - a most unexpected observation after the last weather conditions in the north. Only 1 of my flowers still to be seen in a flower place - more than I have ever seen after a month.

In the lane between Rockbrook & Mount Vernon, the *Equus* Lytle very abundant & healthy in the wood large (at yellow-green station) just W of the college as one goes up the hill, going west, from the bridge on the 2<sup>nd</sup> bridge for Rockbrook!



1955.

1<sup>st</sup> January. A very cold day with a strong E wind.  
 At 1:00 being forced to go down to the beach, on the  
 way a black gnatcatcher, which I thought to have  
 been a white-throated sparrow. I took one of *Thraupis*  
*verticalis* amongst the d.f. bushes & being forced to  
 run for the life of the specimen of it. I put the net  
 away & we walked home, as the wind was very cold & except  
 a few *Lepidoptera*, which I found & a specimen of one, little hope  
 of getting anything of interest.

1.1.53 cont. Bushy Park, Terenure, Co. Dublin

*Thraupis verticalis* ♀, ant 23.

Captures 2 - the smaller common amongst the d.f. bushes.

Beetle: *Stenus*

2<sup>nd</sup> & 3<sup>rd</sup> Jan. Dull, cold E wind: dry on 2<sup>nd</sup>, rain on 3<sup>rd</sup>.  
 Show 13.00 feet rain, night of 2<sup>nd</sup> - 3<sup>rd</sup> rain 1.4 in on 3<sup>rd</sup>.  
 morning with a falling glass to 48° evening.

4<sup>th</sup> till 8<sup>th</sup> Jan. 4<sup>th</sup> was a beautiful day, with SE gale & sun & a dash  
 in all light rain in all day (I had been cloudy morning & light rain)  
 5<sup>th</sup>, 6<sup>th</sup> were dark & dull but dry till afternoon of 6<sup>th</sup> when rain started  
 a temperature high & rain & it rained all night. 7<sup>th</sup> day & night  
 & the cold wind dropped for first time for some days.







20th & 21st January 1955. A milder day, wind in the  
 20th & 21st. Some with drizzle in morning of 20th, but  
 by the afternoon of the latter, clear & cold. The sun was out  
 from 10 till 4 on 20th & 21st. A cold wind in the  
 afternoon of 20th. In garden, by 20th. Wind in the  
 20th but 3rd on 21st. The sky patchy blue at  
 1 PM. & as I decided to go to Bushy Park & try sweeping  
 in some new places. Reached the ground at 2.30  
 but just before we got there a light drizzle of rain  
 passed over us & we went sweeping. Nevertheless, I was  
 sweeping at the end of the road when I took in 20 Jan  
 & in a few minutes I had taken the following insects, but  
 subsequent sweeping, further west, including the dunes of bushes,  
 only but the net produced no Hymenoptera! —

Bushy Park, Terebinth, Co DU. 2.30-3.15 PM.

*Stenomacrus palustris* 2 ♀, ant. 22.

*Stenomacrus laciniatus* 2 ♀♀, ant. both 23.

*Trichopria*? ♀: pretended to be dead in net! =

*Leptina* 2: very small = *Tephritis* of *pubescens*?

Spiders, winged *Proctos* & a few *Hemiptera* & *Coleoptera* also swept!

On 20th received the accompanying letter informing me that I had  
 been elected an Honorary member of the Society for British  
 Entomology! On 20th a party of Wood Pigeons along the Dodder &  
 was 'singing' strongly. On 21st a yellow-brown — fruit garden  
 in Rathdown Park, Terebinth, the first we have seen.

22nd Jan 1955. A cold day, wind in the morning, but  
 by 10 AM the sun was out & the day was fine. The wind was  
 from the north, but by 12 PM it was from the south.  
 The sun was out from 10 till 4. The sky was blue at  
 1 PM. & as I decided to go to Bushy Park & try sweeping  
 in some new places. Reached the ground at 2.30  
 but just before we got there a light drizzle of rain  
 passed over us & we went sweeping. Nevertheless, I was  
 sweeping at the end of the road when I took in 20 Jan  
 & in a few minutes I had taken the following insects, but  
 subsequent sweeping, further west, including the dunes of bushes,  
 only but the net produced no Hymenoptera! —

*Stenomacrus (laciniatus) compressus* ♀, ant. 22.

*Stenomacrus laciniatus* 1 ♀, ant. 23.

*Chalcids* 2

*Hemiptera* 1 =

*Coleoptera* 1 =

*Leptina*, *Tephritis*, *Proctos* numerous, *Hemiptera* - *Membrana*, *Coleoptera*  
*Epura*, *Tachyporus*, etc) & a large red & black tick!







1st February, 1925. Rain started about 9.45 AM. Left at 10.15 for our first day's collecting. Went to the river at 11.15 and collected all day. A number of birds at home of 2-3.

2nd Feb. Fine yellow rain. A very fine day. Went up river at 10.15 after rain, very fine day, but becoming cloudy. Went with 2-3-5-10-15-20-30-40-50-60-70-80-90-100-110-120-130-140-150-160-170-180-190-200-210-220-230-240-250-260-270-280-290-300-310-320-330-340-350-360-370-380-390-400-410-420-430-440-450-460-470-480-490-500-510-520-530-540-550-560-570-580-590-600-610-620-630-640-650-660-670-680-690-700-710-720-730-740-750-760-770-780-790-800-810-820-830-840-850-860-870-880-890-900-910-920-930-940-950-960-970-980-990-1000-1010-1020-1030-1040-1050-1060-1070-1080-1090-1100-1110-1120-1130-1140-1150-1160-1170-1180-1190-1200-1210-1220-1230-1240-1250-1260-1270-1280-1290-1300-1310-1320-1330-1340-1350-1360-1370-1380-1390-1400-1410-1420-1430-1440-1450-1460-1470-1480-1490-1500-1510-1520-1530-1540-1550-1560-1570-1580-1590-1600-1610-1620-1630-1640-1650-1660-1670-1680-1690-1700-1710-1720-1730-1740-1750-1760-1770-1780-1790-1800-1810-1820-1830-1840-1850-1860-1870-1880-1890-1900-1910-1920-1930-1940-1950-1960-1970-1980-1990-2000-2010-2020-2030-2040-2050-2060-2070-2080-2090-2100-2110-2120-2130-2140-2150-2160-2170-2180-2190-2200-2210-2220-2230-2240-2250-2260-2270-2280-2290-2300-2310-2320-2330-2340-2350-2360-2370-2380-2390-2400-2410-2420-2430-2440-2450-2460-2470-2480-2490-2500-2510-2520-2530-2540-2550-2560-2570-2580-2590-2600-2610-2620-2630-2640-2650-2660-2670-2680-2690-2700-2710-2720-2730-2740-2750-2760-2770-2780-2790-2800-2810-2820-2830-2840-2850-2860-2870-2880-2890-2900-2910-2920-2930-2940-2950-2960-2970-2980-2990-3000-3010-3020-3030-3040-3050-3060-3070-3080-3090-3100-3110-3120-3130-3140-3150-3160-3170-3180-3190-3200-3210-3220-3230-3240-3250-3260-3270-3280-3290-3300-3310-3320-3330-3340-3350-3360-3370-3380-3390-3400-3410-3420-3430-3440-3450-3460-3470-3480-3490-3500-3510-3520-3530-3540-3550-3560-3570-3580-3590-3600-3610-3620-3630-3640-3650-3660-3670-3680-3690-3700-3710-3720-3730-3740-3750-3760-3770-3780-3790-3800-3810-3820-3830-3840-3850-3860-3870-3880-3890-3900-3910-3920-3930-3940-3950-3960-3970-3980-3990-4000-4010-4020-4030-4040-4050-4060-4070-4080-4090-4100-4110-4120-4130-4140-4150-4160-4170-4180-4190-4200-4210-4220-4230-4240-4250-4260-4270-4280-4290-4300-4310-4320-4330-4340-4350-4360-4370-4380-4390-4400-4410-4420-4430-4440-4450-4460-4470-4480-4490-4500-4510-4520-4530-4540-4550-4560-4570-4580-4590-4600-4610-4620-4630-4640-4650-4660-4670-4680-4690-4700-4710-4720-4730-4740-4750-4760-4770-4780-4790-4800-4810-4820-4830-4840-4850-4860-4870-4880-4890-4900-4910-4920-4930-4940-4950-4960-4970-4980-4990-5000-5010-5020-5030-5040-5050-5060-5070-5080-5090-5100-5110-5120-5130-5140-5150-5160-5170-5180-5190-5200-5210-5220-5230-5240-5250-5260-5270-5280-5290-5300-5310-5320-5330-5340-5350-5360-5370-5380-5390-5400-5410-5420-5430-5440-5450-5460-5470-5480-5490-5500-5510-5520-5530-5540-5550-5560-5570-5580-5590-5600-5610-5620-5630-5640-5650-5660-5670-5680-5690-5700-5710-5720-5730-5740-5750-5760-5770-5780-5790-5800-5810-5820-5830-5840-5850-5860-5870-5880-5890-5900-5910-5920-5930-5940-5950-5960-5970-5980-5990-6000-6010-6020-6030-6040-6050-6060-6070-6080-6090-6100-6110-6120-6130-6140-6150-6160-6170-6180-6190-6200-6210-6220-6230-6240-6250-6260-6270-6280-6290-6300-6310-6320-6330-6340-6350-6360-6370-6380-6390-6400-6410-6420-6430-6440-6450-6460-6470-6480-6490-6500-6510-6520-6530-6540-6550-6560-6570-6580-6590-6600-6610-6620-6630-6640-6650-6660-6670-6680-6690-6700-6710-6720-6730-6740-6750-6760-6770-6780-6790-6800-6810-6820-6830-6840-6850-6860-6870-6880-6890-6900-6910-6920-6930-6940-6950-6960-6970-6980-6990-7000-7010-7020-7030-7040-7050-7060-7070-7080-7090-7100-7110-7120-7130-7140-7150-7160-7170-7180-7190-7200-7210-7220-7230-7240-7250-7260-7270-7280-7290-7300-7310-7320-7330-7340-7350-7360-7370-7380-7390-7400-7410-7420-7430-7440-7450-7460-7470-7480-7490-7500-7510-7520-7530-7540-7550-7560-7570-7580-7590-7600-7610-7620-7630-7640-7650-7660-7670-7680-7690-7700-7710-7720-7730-7740-7750-7760-7770-7780-7790-7800-7810-7820-7830-7840-7850-7860-7870-7880-7890-7900-7910-7920-7930-7940-7950-7960-7970-7980-7990-8000-8010-8020-8030-8040-8050-8060-8070-8080-8090-8100-8110-8120-8130-8140-8150-8160-8170-8180-8190-8200-8210-8220-8230-8240-8250-8260-8270-8280-8290-8300-8310-8320-8330-8340-8350-8360-8370-8380-8390-8400-8410-8420-8430-8440-8450-8460-8470-8480-8490-8500-8510-8520-8530-8540-8550-8560-8570-8580-8590-8600-8610-8620-8630-8640-8650-8660-8670-8680-8690-8700-8710-8720-8730-8740-8750-8760-8770-8780-8790-8800-8810-8820-8830-8840-8850-8860-8870-8880-8890-8900-8910-8920-8930-8940-8950-8960-8970-8980-8990-9000-9010-9020-9030-9040-9050-9060-9070-9080-9090-9100-9110-9120-9130-9140-9150-9160-9170-9180-9190-9200-9210-9220-9230-9240-9250-9260-9270-9280-9290-9300-9310-9320-9330-9340-9350-9360-9370-9380-9390-9400-9410-9420-9430-9440-9450-9460-9470-9480-9490-9500-9510-9520-9530-9540-9550-9560-9570-9580-9590-9600-9610-9620-9630-9640-9650-9660-9670-9680-9690-9700-9710-9720-9730-9740-9750-9760-9770-9780-9790-9800-9810-9820-9830-9840-9850-9860-9870-9880-9890-9900-9910-9920-9930-9940-9950-9960-9970-9980-9990-10000-10010-10020-10030-10040-10050-10060-10070-10080-10090-10100-10110-10120-10130-10140-10150-10160-10170-10180-10190-10200-10210-10220-10230-10240-10250-10260-10270-10280-10290-10300-10310-10320-10330-10340-10350-10360-10370-10380-10390-10400-10410-10420-10430-10440-10450-10460-10470-10480-10490-10500-10510-10520-10530-10540-10550-10560-10570-10580-10590-10600-10610-10620-10630-10640-10650-10660-10670-10680-10690-10700-10710-10720-10730-10740-10750-10760-10770-10780-10790-10800-10810-10820-10830-10840-10850-10860-10870-10880-10890-10900-10910-10920-10930-10940-10950-10960-10970-10980-10990-11000-11010-11020-11030-11040-11050-11060-11070-11080-11090-11100-11110-11120-11130-11140-11150-11160-11170-11180-11190-11200-11210-11220-11230-11240-11250-11260-11270-11280-11290-11300-11310-11320-11330-11340-11350-11360-11370-11380-11390-11400-11410-11420-11430-11440-11450-11460-11470-11480-11490-11500-11510-11520-11530-11540-11550-11560-11570-11580-11590-11600-11610-11620-11630-11640-11650-11660-11670-11680-11690-11700-11710-11720-11730-11740-11750-11760-11770-11780-11790-11800-11810-11820-11830-11840-11850-11860-11870-11880-11890-11900-11910-11920-11930-11940-11950-11960-11970-11980-11990-12000-12010-12020-12030-12040-12050-12060-12070-12080-12090-12100-12110-12120-12130-12140-12150-12160-12170-12180-12190-12200-12210-12220-12230-12240-12250-12260-12270-12280-12290-12300-12310-12320-12330-12340-12350-12360-12370-12380-12390-12400-12410-12420-12430-12440-12450-12460-12470-12480-12490-12500-12510-12520-12530-12540-12550-12560-12570-12580-12590-12600-12610-12620-12630-12640-12650-12660-12670-12680-12690-12700-12710-12720-12730-12740-12750-12760-12770-12780-12790-12800-12810-12820-12830-12840-12850-12860-12870-12880-12890-12900-12910-12920-12930-12940-12950-12960-12970-12980-12990-13000-13010-13020-13030-13040-13050-13060-13070-13080-13090-13100-13110-13120-13130-13140-13150-13160-13170-13180-13190-13200-13210-13220-13230-13240-13250-13260-13270-13280-13290-13300-13310-13320-13330-13340-13350-13360-13370-13380-13390-13400-13410-13420-13430-13440-13450-13460-13470-13480-13490-13500-13510-13520-13530-13540-13550-13560-13570-13580-13590-13600-13610-13620-13630-13640-13650-13660-13670-13680-13690-13700-13710-13720-13730-13740-13750-13760-13770-13780-13790-13800-13810-13820-13830-13840-13850-13860-13870-13880-13890-13900-13910-13920-13930-13940-13950-13960-13970-13980-13990-14000-14010-14020-14030-14040-14050-14060-14070-14080-14090-14100-14110-14120-14130-14140-14150-14160-14170-14180-14190-14200-14210-14220-14230-14240-14250-14260-14270-14280-14290-14300-14310-14320-14330-14340-14350-14360-14370-14380-14390-14400-14410-14420-14430-14440-14450-14460-14470-14480-14490-14500-14510-14520-14530-14540-14550-14560-14570-14580-14590-14600-14610-14620-14630-14640-14650-14660-14670-14680-14690-14700-14710-14720-14730-14740-14750-14760-14770-14780-14790-14800-14810-14820-14830-14840-14850-14860-14870-14880-14890-14900-14910-14920-14930-14940-14950-14960-14970-14980-14990-15000-15010-15020-15030-15040-15050-15060-15070-15080-15090-15100-15110-15120-15130-15140-15150-15160-15170-15180-15190-15200-15210-15220-15230-15240-15250-15260-15270-15280-15290-15300-15310-15320-15330-15340-15350-15360-15370-15380-15390-15400-15410-15420-15430-15440-15450-15460-15470-15480-15490-15500-15510-15520-15530-15540-15550-15560-15570-15580-15590-15600-15610-15620-15630-15640-15650-15660-15670-15680-15690-15700-15710-15720-15730-15740-15750-15760-15770-15780-15790-15800-15810-15820-15830-15840-15850-15860-15870-15880-15890-15900-15910-15920-15930-15940-15950-15960-15970-15980-15990-16000-16010-16020-16030-16040-16050-16060-16070-16080-16090-16100-16110-16120-16130-16140-16150-16160-16170-16180-16190-16200-16210-16220-16230-16240-16250-16260-16270-16280-16290-16300-16310-16320-16330-16340-16350-16360-16370-16380-16390-16400-16410-16420-16430-16440-16450-16460-16470-16480-16490-16500-16510-16520-16530-16540-16550-16560-16570-16580-16590-16600-16610-16620-16630-16640-16650-16660-16670-16680-16690-16700-16710-16720-16730-16740-16750-16760-16770-16780-16790-16800-16810-16820-16830-16840-16850-16860-16870-16880-16890-16900-16910-16920-16930-16940-16950-16960-16970-16980-16990-17000-17010-17020-17030-17040-17050-17060-17070-17080-17090-17100-17110-17120-17130-17140-17150-17160-17170-17180-17190-17200-17210-17220-17230-17240-17250-17260-17270-17280-17290-17300-17310-17320-17330-17340-17350-17360-17370-17380-17390-17400-17410-17420-17430-17440-17450-17460-17470-17480-17490-17500-17510-17520-17530-17540-17550-17560-17570-17580-17590-17600-17610-17620-17630-17640-17650-17660-17670-17680-17690-17700-17710-17720-17730-17740-17750-17760-17770-17780-17790-17800-17810-17820-17830-17840-17850-17860-17870-17880-17890-17900-17910-17920-17930-17940-17950-17960-17970-17980-17990-18000-18010-18020-18030-18040-18050-18060-18070-18080-18090-18100-18110-18120-18130-18140-18150-18160-18170-18180-18190-18200-18210-18220-18230-18240-18250-18260-18270-18280-18290-18300-18310-18320-18330-18340-18350-18360-18370-18380-18390-18400-18410-18420-18430-18440-18450-18460-18470-18480-18490-18500-18510-18520-18530-18540-18550-18560-18570-18580-18590-18600-18610-18620-18630-18640-18650-18660-18670-18680-18690-18700-18710-18720-18730-18740-18750-18760-18770-18780-18790-18800-18810-18820-18830-18840-18850-18860-18870-18880-18890-18900-18910-18920-18930-18940-18950-18960-18970-18980-18990-19000-19010-19020-19030-19040-19050-19060-19070-19080-19090-19100-19110-19120-19130-19140-19150-19160-19170-19180-19190-19200-19210-19220-19230-19240-19250-19260-19270-19280-19290-19300-19310-19320-19330-19340-19350-19360-19370-19380-19390-19400-19410-19420-19430-19440-19450-19460-19470-19480-19490-19500-19510-19520-19530-19540-19550-19560-19570-19580-19590-19600-19610-19620-19630-19640-19650-19660-19670-19680-19690-19700-19710-19720-19730-19740-19750-19760-19770-19780-19790-19800-19810-19820-19830-19840-19850-19860-19870-19880-19890-19900-19910-19920-19930-19940-19950-19960-19970-19980-19990-20000-20010-20020-20030-20040-20050-20060-20070-20080-20090-20100-20110-20120-20130-20140-20150-20160-20170-20180-20190-20200-20210-20220-20230-20240-20250-20260-20270-20280-20290-20300-20310-20320-20330-20340-20350-20360-20370-20380-20390-20400-20410-20420-20430-20440-20450-20460-20470-20480-20490-20500-20510-20520-20530-20540-20550-20560-20570-20580-20590-20600-20610-20620-20630-20640-20650-20660-20670-20680-20690-20700-20710-20720-20730-20740-20750-20760-20770-20780-20790-20800-20810-20820-20830-20840-20850-20860-20870-20880-20890-20900-20910-20920-20930-20940-20950-20960-20970-20980-20990-21000-21010-21020-21030-21040-21050-21060-21070-21080-21090-21100-21110-21120-21130-21140-21150-21160-21170-21180-21190-21200-21210-21220-21230-21240-21250-21260-21270-21280-21290-21300-21310-21320-21330-21340-21350-21360-21370-21380-21390-21400-21410-21420-21430-21440-21450-21460-21470-21480-21490-21500-21510-21520-21530-21540-21550-21560-21570-21580-21590-21600-21610-21620-21630-21640-21650-21660-21670-21680-21690-21700-21710-21720-21730-21740-21750-21760-21770-21780-21790-21800-21810-21820-21830-21840-21850-21860-21870-21880-21890-21900-21910-21920-21930-21940-21950-21960-21970-21980-21990-22000-22010-22020-22030-22040-22050-22060-22070-22080-22090-22100-22110-22120-22130-221



















19th April 1955. During the previous I have  
 said up to 20th. At last, says in garden  
 but has little difference between this & the previous  
 summer. There suffered from at intervals and since  
 had to plant in 1952. Weather mainly dry & days  
 mainly sunny with cold E. wind. (R. but at  
 night, but a little rain fell over Easter week and (1.4  
 from 5th to 11th April). Many flowers coming out in garden  
 towards end of the period. *Arctostaphylos* was in,  
*Salix arbuscula* etc, *Baron montana* & *Chamaenerion*,  
 but I have not been able to do more than to take the  
 bulk of back garden during last few days of it.

20th April. Continuing mostly fine & sunny with E. wind &  
 slight frost at night, but some rain on Sat 23rd. In spite  
 of the rain growth slow owing to dry cold wind, but many  
 plants had jump a bit when the rain fell. *Ranunculus acris*  
 in flower on 20th & also a two year old plant of *Briza media*  
 (in pot) from Ben Larn. Only two plants of *Sandrago*  
*curvata*, also from Ben Larn, seen to have survived  
 the winter & one of them is starting to push with bulbous  
 but both very small. *Salix myrsinites* (in pot) from  
 Ben Larn, from Lyon, with two lovely, full, purple, catkins.  
*Arctostaphylos alpinus* brought from Scotland last year  
 & that was very much alive up till Dec. 34, after which  
 been killed by the cold dry weather of Jan - March last.

21st April 1955. During the previous I have  
 said up to 20th. At last, says in garden  
 but has little difference between this & the previous  
 summer. There suffered from at intervals and since  
 had to plant in 1952. Weather mainly dry & days  
 mainly sunny with cold E. wind. (R. but at  
 night, but a little rain fell over Easter week and (1.4  
 from 5th to 11th April). Many flowers coming out in garden  
 towards end of the period. *Arctostaphylos* was in,  
*Salix arbuscula* etc, *Baron montana* & *Chamaenerion*,  
 but I have not been able to do more than to take the  
 bulk of back garden during last few days of it.

*Schemmura*, 60. DU, 3-4-4-20-22.  
*Schemmura nigra* ♀.  
*Pygostemma* sp. 20-22, not etc.  
*Pygostemma* sp. and 29 =  
*Euphorbia* *hispida* at ♀, not etc., 20-22.  
*Rosa* *canadensis* & *longicaulis* set of 20-22, not etc.  
*Ephedra* a small one, not etc. of 20-22, not etc.  
*Monarda* *occidentalis* ♀, not etc. (the specimen is 1955)  
*Pentstemon* 5, only one collected etc. =

*Chelidonium* 2  
*Hyssopus* 3  
*Chamaenerion* 2



27<sup>th</sup> April 1955. The first day for some time after rain with  
 a very strong wind all day & some light rain in  
 evening & a very cold & misty morning.

In afternoon drove to gate of St Columba's College & walked  
 about half way up Kilnashogue & back down. Found  
 shells on way up lane & along edge of narrow path W. of lane  
 & at top corner of the college wall & back to the gate.

St Columba's, Kilnashogue, Co. DU. 3.30 P.M.

*Physcia*? not at all. (note: only 2 thin *Physcia* in *C. columba*)

*Utricularia*? not at all.

*Epilobium angustatum* not at all.

*Aspidotria* sp. 3000 ft. of *A. angustatum* - not at all.

*Desmoulinia* of *Desmoulinia* 3000 ft. not at all.

*Desmoulinia* *carinata* (small) 7000 ft. in narrow ravine at top of hill, *Physcia* not at all, but *Physcia* not at all.

*Aspidotria* sp. 9000 ft. not at all.

*Roctus*? not at all.

*Chelidonium* 3 (small) not at all.

*Corynephorus* 1 not at all.

28<sup>th</sup> April 1955. A sunny day, after rain the night before, but  
 wind, but windy all day. Spent morning in garden & afternoon  
 in house & back to house & back to house & back to house & back to house  
 walked up to summit of Binn, where was *Physcia* *colymba* *glauca*  
*Crustaceae* & *Physcia* *colymba* *glauca* *glauca* *glauca* *glauca*  
 (which is almost in flower & very few *Physcia* *colymba* *glauca* *glauca*  
 which is *Physcia* *colymba* *glauca* *glauca* *glauca* *glauca*  
 in garden & in house & in the garden & in the garden & in the garden  
 three roads. Took only one flower in the garden & one in  
 the garden & one in the garden & one in the garden & one in the garden  
 Binn, but none above the old road & all *Physcia* *colymba* *glauca*  
*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*

*Physcia* *colymba* *glauca* *glauca* *glauca* *glauca* *glauca* *glauca*











15<sup>th</sup> May 1955. A very nice rainy all morning day & the first without a single shower for some time. Wind still cold & north strong NW. Left early morning when it dropped & backed to E. R. H. - Broomer road blocked by snow & snow-plough out in the Pannier - N. of England according to B. S. C. G. & back news. In afternoon went to Douring & collected by sweeping in the park for about an hour & a half where good shelter for the most part & all insects.

Douring Park, Co. DU. 2-30 - 4 - 5 PM

Samplers 3 = *hirsuta* 3♀♀ larvae said to be *hirsuta* *hirsuta* 1♀  
Cynipids 12, including *Abadoda* *teucriorum* 1♂; 4 only named =  
*Abadoda* 1♀, ant. 19. *Phygadeuon* 1♀, ant. 19.  
*Pezomachus* 1♀, 3rd ant. 25. *Pez.* 1♀, small ant. 22.  
*Pimpla* *apicaria* 1♂, ant. 30.  
*Promethes* *leucophaea* 1♂, very brightly coloured & =  
*Pezomachus* 4 (1♂, ant. 25, 27 & 29, 1♀, ant. 25) probably all new species.

*Camptoplex* 2♂♂, not mtd.  
*Euphorus* *longicauda* 1♂, ant. 24.  
*metacarpus* *melanostictus* 1♂, ant. 24. *Apanteles* *retropurpureus* 1♀, mtd. dark form.  
*Sicaphys* of *leucophaea* 1♂? a small ♂, ant. 24, but larger than 1♂ very commonly found.

16. 5. 55, cont. Douring, DU., cont.  
*Camptoplex* *purpureus* 1♀, not mtd. *Phygadeuon* *teucriorum* 1♂, not mtd.  
*Apanteles* *retropurpureus* 1♀, ant. 24. *Phygadeuon* *teucriorum* 1♀, ant. 19.  
*Dacnusa* *areolaris*, *laevipennis* & *maculipes* (1), about 1 dozen.  
*D. dida* 1♀, ant. 31.  
*D. areolaris*, 1 large ♂, ant. 35.  
*Triclistus* of *hirsutus*, 1♂, ant. 10.  
*Promethes* *leucophaea* 1♀, not mtd.  
*Apanteles* of 12, none kept.  
*hirsutus* *hirsutus* 1♀, ant. 24, 1957. 1♀, ant. 24, 1957. 1♀, ant. 24, 1957. 1♀, ant. 24, 1957.  
Chalcids 10: none mtd.

*Cynipid* 1 minute, not mtd.  
Several Bumble Bees heard & *Andrena* *chloris* 1♀ kept.  
17<sup>th</sup> 22<sup>nd</sup> May 1955 Douring, DU. with very heavy showers of rain, sleet & hail, some snow on 17<sup>th</sup> & 18<sup>th</sup>, then some heavy snow, passed, & generally a 20<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> & 15<sup>th</sup> 16<sup>th</sup> 17<sup>th</sup> 18<sup>th</sup> 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> rain fell in Douring, 22<sup>nd</sup> & 23<sup>rd</sup> & 24<sup>th</sup> & 25<sup>th</sup> & 26<sup>th</sup> & 27<sup>th</sup> & 28<sup>th</sup> & 29<sup>th</sup> & 30<sup>th</sup> & 31<sup>st</sup> collected in back garden in Douring on 21<sup>st</sup> & 22<sup>nd</sup> & 23<sup>rd</sup> & 24<sup>th</sup> & 25<sup>th</sup> & 26<sup>th</sup> & 27<sup>th</sup> & 28<sup>th</sup> & 29<sup>th</sup> & 30<sup>th</sup> & 31<sup>st</sup> of 22<sup>nd</sup> & took the following Hymenoptera, also in garden & in many small white butterflies about & very common (1♂ & 1♀) all over (about 100) passing E. Douring garden in the middle of 22<sup>nd</sup>. Several & Bumble Bees seen during the period, but quite a few ♀ *Vespa* *vulgaris* (or *germanica*) seen on 21<sup>st</sup> & 22<sup>nd</sup>.



















31.5.1955 cont. North Bull, 2nd cont.

Taken at 2,  
Cryptids in close by, 3000 ft.

*Leptocryptus* 1

*Leptocryptus* 1

*Agrotis* palea 3 ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft.

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀, 1000 ft.

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft.

*Agrotis* 10

*Agrotis*

31.5.55, cont. North Bull, 2nd, cont.

Taken at 2.

*Agrotis* 3

*Agrotis* 2 ♀♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft.

*Agrotis* 1000 ft.

Taken at 3.

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀, 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft. ♀

*Agrotis* 1000 ft.































12.6.55, cont. Sandstone cliffs, Tarnmore, Co. WI., cont.  
 In a shallow channel draining of Rye Lough there is  
 some mud. *Epilobium* *hirsutum*, *Bombus* *terrestris*, *Stenobothrus*  
*concoloratus* (very common) on sandstone cliffs. In a former  
 & *Bombus* *terrestris* (very common) on sandstone cliffs.  
 (Rye). On the cliffs at N end of Tarnmore, with *Stenobothrus*,  
 & in some of the cliffs above the cliffs are found *Stenobothrus*,  
*Stenobothrus*, *Epilobium* *hirsutum*, *Sagina* *maritima*,  
*Aster* *triflorus*, *Bombus* *terrestris*, & a few  
 just N.E. of the Lough. Some *Stenobothrus* of *terrestris*  
 with half of *Stenobothrus* & some *Stenobothrus* (just N.E.  
 of *Stenobothrus* of *terrestris*). On sandstone cliffs Tarnmore  
 with a small *Stenobothrus* & *Stenobothrus* & *Stenobothrus*  
 identification of *Stenobothrus* of *terrestris*.

*Stenobothrus* *terrestris* (just N.E. of the Lough).  
*Stenobothrus* of *terrestris* (just N.E. of the Lough).

*Stenobothrus* *terrestris* (just N.E. of the Lough).  
*Stenobothrus* of *terrestris* (just N.E. of the Lough).

*Stenobothrus* *terrestris* (just N.E. of the Lough).  
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*Stenobothrus* *terrestris* (just N.E. of the Lough).  
*Stenobothrus* of *terrestris* (just N.E. of the Lough).

*Stenobothrus* *terrestris* (just N.E. of the Lough).  
*Stenobothrus* of *terrestris* (just N.E. of the Lough).

12.6.55, cont. Sandstone cliffs, Tarnmore, Co. WI., cont.  
*Stenobothrus* *terrestris* (just N.E. of the Lough).

*Stenobothrus* *terrestris* (just N.E. of the Lough).  
*Stenobothrus* of *terrestris* (just N.E. of the Lough).

*Stenobothrus* *terrestris* (just N.E. of the Lough).  
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*Stenobothrus* *terrestris* (just N.E. of the Lough).  
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*Stenobothrus* *terrestris* (just N.E. of the Lough).  
*Stenobothrus* of *terrestris* (just N.E. of the Lough).















78 A.

154











18.6.55, cont. Coast, A.D. W.D., cont.

Taken at 2 (see also other notes on 18.6.55)

*Microgaster* sp. 2, ant. 19. *Microgaster* sp. 1, ant. 18.

*Microgaster* sp. 2 - *Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 19.

*Microgaster* sp. 3, ant. 20, ant. 21.

*Microgaster* sp. 2, ant. 20.

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20. *Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20. *Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20. *Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

18.6.55, cont. Coast, A.D. W.D., cont.

Taken at 2

*Microgaster* sp. 1, ant. 20.

*Microgaster* sp. 1, ant. 20.

Very small, black, wingless. *Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

19th June 1955. Bull, with black, 2-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Hotel garden, Gungahly, on 11.6.55. 11.20 - 12.00 noon.

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)

*Microgaster* sp. 1, ant. 20. (cf. *Microgaster* sp. 1, p. 83, ant. 20.)











90 A.

194



92A.

21.3.55, 12, ant. The 1st of 2nd 50, ant.

3: Small sp. 15, ant. 15. =

Small sp. 15, ant. 15. =

Large sp. 24, ant. 24 = *Cratichneumon* *attenuator* Trant.

2nd sp. 15, ant. 15. =

2nd sp. 15, ant. 15. =

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2nd sp. 15, ant. 15. =

Subsequently (1964) made the type of his n. sp. *Protodacnusa litoralis* by G. G. D. Griffiths.

2nd sp. 15, ant. 15. =

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2nd sp. 15, ant. 15. =



74 A.

22A











15 June 1925. Went to yesterday's place, found a  
 spread of *Phlox* *subulnifolia* *var. subulnifolia*, but  
 at 8.30 AM wind rose and we had to leave it to the  
 about 10.20 the trip was over. The *Phlox* was collected  
 down to the river & across the river. The *Phlox* was collected  
 by the river & across the river. The *Phlox* was collected  
 white flowered *Phlox* was the only plant collected. It  
 was a very tall form of *Phlox* *subulnifolia* on the river  
 bank about 300 yards above the bridge. Then returned  
 for house at 1.15 PM, collecting. Even made a  
 list of insects on way back. On way back, found  
 a lot of *Phlox* *subulnifolia* on the river bank. The *Phlox*  
 was collected on the river bank. The *Phlox* was collected  
 on near the gate of *Phlox* *subulnifolia*. I took the following

*Phlox* *subulnifolia* (by roadside to gate of *Phlox* *subulnifolia* 140.)

*Phlox* *subulnifolia* 140. *Phlox* *subulnifolia* 140. *Phlox* *subulnifolia* 140.

*Phlox* *subulnifolia* 140. *Phlox* *subulnifolia* 140. *Phlox* *subulnifolia* 140.

*Phlox* *subulnifolia* 140. *Phlox* *subulnifolia* 140. *Phlox* *subulnifolia* 140.

16 June 1925. Went to yesterday's place, found a  
 spread of *Phlox* *subulnifolia* *var. subulnifolia*, but  
 at 8.30 AM wind rose and we had to leave it to the  
 about 10.20 the trip was over. The *Phlox* was collected  
 down to the river & across the river. The *Phlox* was collected  
 by the river & across the river. The *Phlox* was collected  
 white flowered *Phlox* was the only plant collected. It  
 was a very tall form of *Phlox* *subulnifolia* on the river  
 bank about 300 yards above the bridge. Then returned  
 for house at 1.15 PM, collecting. Even made a  
 list of insects on way back. On way back, found  
 a lot of *Phlox* *subulnifolia* on the river bank. The *Phlox*  
 was collected on the river bank. The *Phlox* was collected  
 on near the gate of *Phlox* *subulnifolia*. I took the following

*Phlox* *subulnifolia* (by roadside to gate of *Phlox* *subulnifolia* 140.)











8.7 55. cont. Killdeer, Co. 100, cont.  
 B. 100. 100. 100.

Sooty, Tomodetta, ephippia, and 2 black 4

Euphorbia 4 200.

Stemium 2

Stemium 100 100 100

Bacon, f. 100 100 100

Diglyph 100 100 100

Sp. 100 100 100

Monocot 4

Monocot 100 100 100

Blau 100 100 100

Opus 100 100 100

100 100 100

Antephor 100 100 100

Antephor 100

Laurea 100 100 100

Laurea 100 100 100

8.7 55. cont. Killdeer, Co. 100, cont.

B. 100. 100. 100.

D. 100. 100. 100.

P. 100. 100. 100.

A. 100. 100. 100.

P. 100. 100. 100.

Blau 100. 100. 100.

Euphorbia 4.

Euphorbia 2 (100, 100, 100)

Taken at 2. (Only 500 100 100 100 100 100 100)

Euphorbia 100 100 100

P. 100. 100. 100.

Monocot 100. 100. 100.

Opus 100. 100. 100.

Blau 100. 100. 100.

D. 100. 100. 100.

A. 100. 100. 100.

Blau 100. 100. 100.

Euphorbia 1

(apparently 100 100 100 100 100 100 100)  
 100 100 100 100 100 100 100  
 100 100 100 100 100 100 100







15<sup>th</sup>-16<sup>th</sup> July 1955. Still blazing hot sun & blue sky. Can't get to attempt going to see new flat as have no car. Examined specimen of *Hylaeus ruficornis* in back garden at flower of shot-cabbage & saw *Crabro varius* & *Lucicutia* (the latter I think a 2<sup>nd</sup> emergence). White Currant bush beside motor-house door almost stripped of leaves by *Hylaeus* & sawfly. No other insects since our return on 28<sup>th</sup> June. On 16<sup>th</sup> took the following insects in back garden about noon: — 5 labelled 19.7.55.

*Campoplegid* 2 = 20, ant 30.

279, ant 24 = 21.

*Chalcid* 1 = 20, ant 21.

*Braconellid* = 20, ant 21. 20, ant 21. 20, ant 21.

17<sup>th</sup>-19<sup>th</sup> July. Breeding day & hot. 17<sup>th</sup> morning of 19<sup>th</sup> also hot & dull & cooler, sunny & warm afternoon but decidedly cooler in evening. Took 2 *Hylaeus* & 2 *Crabro* in back garden, ant 21.

20<sup>th</sup>-22<sup>nd</sup> July. The same! Very warm & sunny & garden was badly in need of rain. *Primula scutellaria* (comp. plant) coming into flower for the second time, after being given a second 'plantoid' or return from Boregat. *Scabiosa caucasica* spike now three inches high, with very bulbous. *Crabro* *Lutea* also

23<sup>rd</sup> July 1955. Very warm, sunny, cloudy till 6 P.M. then sunny. Went W. in forenoon, and after 5 P.M. to forenoon 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> 23<sup>rd</sup> 24<sup>th</sup> 25<sup>th</sup> 26<sup>th</sup> 27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> 30<sup>th</sup> 31<sup>st</sup> 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> 16<sup>th</sup> 17<sup>th</sup> 18<sup>th</sup> 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> 23<sup>rd</sup> 24<sup>th</sup> 25<sup>th</sup> 26<sup>th</sup> 27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> 30<sup>th</sup> 31<sup>st</sup> 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> 16<sup>th</sup> 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31<sup>st</sup> 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> 16<sup>th</sup> 17<sup>th</sup> 18<sup>th</sup> 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> 23<sup>rd</sup> 24<sup>th</sup> 25<sup>th</sup> 26<sup>th</sup> 27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> 30<sup>th</sup> 31<sup>st</sup> 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> 16<sup>th</sup> 17<sup>th</sup> 18<sup>th</sup> 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> 23<sup>rd</sup> 24<sup>th</sup> 25<sup>th</sup> 26<sup>th</sup> 27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> 30<sup>th</sup> 31<sup>st</sup> 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2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> 16<sup>th</sup> 17<sup>th</sup> 18<sup>th</sup> 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> 23<sup>rd</sup> 24<sup>th</sup> 25<sup>th</sup> 26<sup>th</sup> 27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> 30<sup>th</sup> 31<sup>st</sup> 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup> 7<sup>th</sup> 8<sup>th</sup> 9<sup>th</sup> 10<sup>th</sup> 11<sup>th</sup> 12<sup>th</sup> 13<sup>th</sup> 14<sup>th</sup> 15<sup>th</sup> 16<sup>th</sup> 17<sup>th</sup> 18<sup>th</sup> 19<sup>th</sup> 20<sup>th</sup> 21<sup>st</sup> 22<sup>nd</sup> 23<sup>rd</sup> 24<sup>th</sup> 25<sup>th</sup> 26<sup>th</sup> 27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> 30<sup>th</sup> 31<sup>st</sup> 1<sup>st</sup> 2<sup>nd</sup> 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8.8.55 cont. Clear, dry weather.  
 Went out 1 mile down river to shore & back  
 after tea about 5.30 and a few other sweeping  
 before going to bed. Swept in the river  
 down to the bridge, swept the shore and swept  
 by the water in some places at 7.30 & 8.15. In the  
 evening very wet & sweeping impossible.

Insects swept in and around bridge at Donist  
 Bridge, S. of bridge, 1 1/2 miles S.W. of Athlone,  
 Co. Wick. 1.6.55 AM. *Myrmica ruginodis* ♂

*Atractodes* sp. black, very small = *Abis* ♂

*Dacnusa* ♀

*Apanteles* ♀

*Chalcid* ♂

*Apanteles* 3 =

*Pentapleura pumilio* ♂. *P. angustula*, very small ♀.

*Apanteles* ♀

*Dacnusa* 3

*D. (G.)* ♂

*Apanteles* 14

*Proctos* 3

*Chalcid* 16 minute

*Cynipid* 1.

*Diptera*

Curious tall as the  
 form of *Holm*  
 which  
 named

8.8.55 cont. The morning, E. of Black Head, CL.  
 Swept in the morning. See notes at 2. S.P.M.

*Myrmica ruginodis* (var. *subulata*?) ♀.

*Curculio nigra* & *glauca* ♂ & ♀

*Bombus agrorum* ♂ & ♀

*Hemiteles sp.* small ♂

*Promethes laticeps* ♂.

*Apanteles* ♀

*Dacnusa*

*D.*

*D.*

*D. (G.) affinis* ♂

*Chalcid* ♂

*Chalcid* conjugens ♂

*Apanteles* sp. ♂

*Proctos* 7

*Chalcid* ♀

*Cynipid* 1.







9.8.34, cont. Shore Trips cont.

Taken at low tide = Poulton High.

Passage of 2000 = 13 of up to 1000 ft. at 10.30.

Bygones 20. - *Diadema* 2000 ft. 10.30.

Bygones of 1000 ft. 10.30, at 10.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

Agathis of littoralis 2000 ft. 10.30, 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* of littoralis 2000 ft. 10.30, 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

9.8.35 (1), cont.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.



*Diadema* 2000 ft. 10.30.

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*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.

*Diadema* 2000 ft. 10.30.







Cliffs at N. end of Tramore.  
Horn Head. A.W.S. looking  
at habitat for Statice binervosa  
"near Mac Swyne's Gun" in Hart's Flora  
of Donegal.

Photo. H. E. Green

12.6.1955.

P.M.







9.8.55 cont. Colne Trip cont.

Small 1st 3. (at 11.45 AM)

Shelter belt on N. of Ballyvaughan P.M. Hotel

Scirpus 8. 8-9 PM

Quercus pedunculata 2

Scirpus 4

Scirpus 2

Scirpus 1

Scirpus multiflorus or Scirpus maritimus 3

Scirpus 2

Scirpus 2

Scirpus 2 1st 2nd 3rd 4th

Scirpus 2, 2nd 23rd, 2nd 2nd

Scirpus 1

Scirpus 1

Scirpus 1

Scirpus 2

Scirpus 2

Scirpus 1

Scirpus 2

Scirpus 2

9.8.55(2) cont.

Scirpus 2 3rd 4th

Scirpus 2 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st 32nd 33rd 34th 35th 36th 37th 38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th 49th 50th 51st 52nd 53rd 54th 55th 56th 57th 58th 59th 60th 61st 62nd 63rd 64th 65th 66th 67th 68th 69th 70th 71st 72nd 73rd 74th 75th 76th 77th 78th 79th 80th 81st 82nd 83rd 84th 85th 86th 87th 88th 89th 90th 91st 92nd 93rd 94th 95th 96th 97th 98th 99th 100th

Scirpus 2 1st 2nd 3rd 4th

Scirpus 2 1st 2nd 3rd 4th

Scirpus 2 1st 2nd 3rd 4th

Scirpus 2 1st 2nd 3rd 4th

Scirpus 2 1st 2nd 3rd 4th

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Scirpus 2 1st 2nd 3rd 4th

Scirpus 2 1st 2nd 3rd 4th

Scirpus 2 1st 2nd 3rd 4th



10th Aug. 1955. (1955) Trip to ...

As the 9th. but day, but not a fine day. ...

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[Ants. *Myrmica schenckii* ♀  
taken from 9.8.56  
See p. 123 entry 1]



10.8.55. 1st day trip out.  
 Taken at 1st (Bull Harbor) and 2nd (2300').  
 Spent 1st day at 1st.  
 Bull Harbor, 1st day.  
 2nd day.  
 3rd day.

11th August 1955. Another perfect day. 1st day.  
 Trip out by 1st day. 2nd day.  
 1st day. 2nd day. 3rd day.  
 4th day. 5th day. 6th day.  
 7th day. 8th day. 9th day.  
 10th day. 11th day. 12th day.  
 13th day. 14th day. 15th day.  
 16th day. 17th day. 18th day.  
 19th day. 20th day. 21st day.  
 22nd day. 23rd day. 24th day.  
 25th day. 26th day. 27th day.  
 28th day. 29th day. 30th day.

12th August 1955. 1st day trip out.  
 Taken at 1st (Bull Harbor) and 2nd (2300').  
 Spent 1st day at 1st.  
 Bull Harbor, 1st day.  
 2nd day.  
 3rd day.  
 4th day.  
 5th day.  
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 28th day.  
 29th day.  
 30th day.

11.8.55. 1st day trip out.  
 Taken at 1st (Bull Harbor) and 2nd (2300').  
 Spent 1st day at 1st.  
 Bull Harbor, 1st day.  
 2nd day.  
 3rd day.

12th August 1955. 1st day trip out.  
 Taken at 1st (Bull Harbor) and 2nd (2300').  
 Spent 1st day at 1st.  
 Bull Harbor, 1st day.  
 2nd day.  
 3rd day.  
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 29th day.  
 30th day.

13th August 1955. 1st day trip out.  
 Taken at 1st (Bull Harbor) and 2nd (2300').  
 Spent 1st day at 1st.  
 Bull Harbor, 1st day.  
 2nd day.  
 3rd day.  
 4th day.  
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 25th day.  
 26th day.  
 27th day.  
 28th day.  
 29th day.  
 30th day.















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(2)

13 &amp; 14 Aug

Aphidid 4

Rhop 1

Chalcid 7

The Maryland, W. and

To be at 3. Top of hill behind L. Carter's. 5  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.

14-15 August. Very hot & humid with occasional  
 heavy showers. In forenoon of 14th

On 14th at 10:00 I went to the garden at 11:30 & Small Tort.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.

19th Aug. After a heavy early morning rain,  
 I finished the 1st, but was not out to 10:00.  
 I went out at 10:00 & 11:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.

22nd Aug. 1955. A clear, sunny day with a light  
 breeze. I went out at 10:00 & 11:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.  
 1/2 hr. before 10:00. 1/2 hr. before 10:00. 1/2 hr. before 10:00.

1 = Area parallel to railway N. of 1st SW area. 5 stations  
 2 = Field area (SW) drain & parallel drain near railway  
 & S of station 1. 12:15 - 1:30 P.M.

3 = Field area near railway N. of 1st SW area. 5 stations

4 = Area along outside railway for 1/2 mile S of station 2  
 only a 1/2 pl. of crop & few insects taken. 2:45-3:15

5 = In road 1/2 mile N of Kullough's, where track crosses  
 road & railway = station 2 (in part) of 16/5/55. 3:15-3:30

14th. The day started as I reached station 5 & everything  
 soon too hot to work.

Worked into Kullough's & caught 6 P.M. train home  
 at 8:40. Still dripping, but as fall in glass.



















25.8.59, cont. The M. area, G. W. L. road.  
 2 = 11.200 yards of parallel drain S. of station 1.  
 3 = 11.200 yards of same drain about 6  
 3.5 miles past on railway. 12.30 - 1.10 P.M.  
 4 = March - with walking, the hills S. of this mile  
 Point, on 11th. 2.10 P.M. 2.0 - 2.45 P.M.  
 5 = March - on old railway line from 2.45 -  
 walking, 3pm to 11.45 P.M. 3.15 - 3.45 P.M.  
 6 = March, 1000 yds of the Broad Leach at 4.00  
 a foot and a half of water & sludge, or more  
 at the railway, taken at 2.45 P.M.

Larger ticks, etc., in killing bottle mostly from station  
 1, 2 or 3, but not all!

Adipos fly ♀. Spent time from 6 - 5 at station. Stridulation from 2.45 P.M.  
 Greenhopper ♀ from 4  
 Large Water Beetle from 4  
 Ant. Formica ♀ - a group of ♀ from 4  
 Hymenoptera ♀ from 3 =  
 Ichneumonid ♂ from 5  
 P. t. f. d. d. d. d. d. ♀ from 3  
 Alantomyia green - from ♂. Leptocryptus ♀, very small  
 Alantomyia id. id. 4

25.8.59, cont. The M. area, G. W. L. road.  
 Ant. form. (Hymenoptera) from 3.45 - 4.00 P.M.

Trichoptera 3 at 5.

Taken at 1. (From parallel to station, narrow 1/2 mile  
 S. of Newcastle station, 11.20 - 1.10 P.M.)  
 Trichoptera 3 at 5. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

Pronotus cognatus ♂? Took trip 2.30  
 Meloboris sp. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.







25.8 53(3) cont. The morning! 101, 102

*Eucyrtus chrysus* 2.00 *Alone chrysus* 3.85

*Chrysus* (3) *procerus* 2

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

Taken at 4.

*Cryptus* 11, including *Leptocryptus* 5 & *Leptocryptus* 5

*Chrysus* (3) *procerus* 2

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

25.8 54(4) cont. The morning! 101, 102

*Chrysus* (3) *procerus* 2.00 = *Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00

*Chrysus* (3) *procerus* 2.00







































